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Three New Willows from the Far West*

By O. VON SEEMEN

Salix Franciscana

A large shrub with spreading branches: twigs brown, with short gray pubescence: petioles 1.5 cm. long or less, similarly pubescent; leaf-blades cuneate-oblong to obovate, 10 cm. long or less, 4 cm. wide, with a short point, entire, the upper surface sparsely, the lower more densely gray-pubescent (this short pubescence dense on both sides of young leaves at the apex of shoot), the upper surface dark green, scarcely shining, the lower a dull gray-green; midrib and wide-meshed nervature slightly prominent above and sharply so beneath; stipules feebly developed, semi-cordate, obtuse, serrate, with short gray pubescence: aments appearing before the leaves, erect; the subtending scales brown, with short gray pubescence; pedicels short, with dense similar pubescence and bearing small lanceolate to oblong leaves which are densely gray silky pubescent beneath and on the margins: staminate aments long-cylindric, 6 cm. long or less, 1.7 cm. thick, narrowed toward apex, somewhat curved, dense-flowered; axis with short, dense, gray pubescence; bracts oblong, obtuse, narrowing to base, upper half brown, the lower light, with dense, shaggy, gray pubescence; stamens 2, united at the base or half way up, smooth, about twice as long as the bract; anthers slender, yellow; gland 1, posterior, narrowly ovate, truncate, not more than half the length of the bract: pistillate ament cylindric, 3 cm. long or less, 1 cm. thick, somewhat curved, dense-flowered; axis like the staminate; bract oblong, apex round, base narrowed, upper half dark brown, lower light, densely shaggy gray pubescent, reaching the lower part of the capsule: capsule stipitate (stipe half the length of capsule and smooth), narrowing from a narrowly oval base, smooth; style about half as long as the stipe; stigmas short, emarginate, capitate; gland 1, posterior, narrowly ovate, truncate, as long as the stipe.

The Cliff House, San Francisco; among sand hills along the coast. (C. F. Baker, *Plants of the Pacific Slope*, no. 303, March 14 and Sept. 1, 1902.)

* [Through the kindly interest of Dr. E. B. Copeland, of Stanford University, it becomes possible to present these descriptions in English instead of German. Specimens illustrating these species were distributed in the spring of 1903 under these names to all the greater public herbaria of the world, and besides to many private herbaria. — C. F. BAKER.]

Salix Bakeri

Tree or shrub 5–10 m. high : twigs dark brown, smooth, but the young tips with very short sparse gray pubescence : petioles not over 0.5 cm. long, with very short gray pubescence ; leaf-blades lanceolate or spatulate-lanceolate, 6 cm. long or less by 1.5 cm. wide, acute, the basal half narrowed to the petiole and acute (leaves at base of branches with the apex round with a short point), entire or very shallowly serrate with minute teeth, with very short gray pubescence, the upper surface becoming smooth, bright green and shining, the lower bluish green and dull ; midrib slightly prominent on the upper, strongly so on the lower surface ; nervature wide-meshed, depressed from the upper surface, slightly prominent beneath : aments appearing before the leaves ; the subtending scales dirty yellow-brown, with sparse, short, gray hairs : staminate aments erect, with very short peduncles (clothed with dense, short, light gray hairs and bearing minute, light gray-pubescent, bract-like leaves), cylindrical, 3 cm. long or less, 1.2 cm. thick, somewhat curved, dense-flowered ; the axis with dense, short, bright gray pubescence ; bracts obovate, apex rounded, the upper half dark, the lower light, brown, bearded with long light gray hairs ; stamens 2, free, smooth, not over three times as long as the bract ; anthers oval, yellow ; gland 1, posterior, narrowly subulate, one half the length of the scale or less : pistillate aments erect, pedunculate like the staminate, cylindrical, 5 cm. long or less, 1 cm. thick, somewhat curved, dense-flowered ; axis like the staminate ; bracts oblong, almost truncate, in other respects like the staminate ; capsule with a smooth stipe two thirds its own length, flask-shaped with narrowly ovate base, apex with short gray hairs ; style not over one third as long as the stipe ; stigma short, forked, emarginate ; gland 1, posterior, narrowly subulate, not over one third as long as the stipe.

Foothills near Stanford University, Santa Clara County, California. (C. F. Baker, *Plants of the Pacific Slope*, no. 274, March 9 and May 10, 1902.)

Salix Ormsbyensis

A low, spreading shrub, with short, ash-gray, smooth branches : petioles 5 mm. long, or less, smooth, or sparingly short-pubescent when young ; leaf-blades lanceolate, 4 cm. long or less, 1 cm. wide, acute, the base obtuse, entire or finely serrate, smooth (only the young leaves silky beneath), both surfaces light green ; midrib and nerves slightly prominent ; stipules not well developed, semiovate, acute, finely serrate, smooth ; aments appearing with

the leaves, with yellowish green, smooth subtending scales, erect, the short peduncle clothed with short gray hairs and bearing small, lanceolate, entire or finely serrate, smooth or scantily pubescent leaves; staminate ament oval or short-cylindrical, 2 cm. long or less, 7 mm. thick, somewhat narrowed toward the apex, dense-flowered; axis beset with long, light gray, curly hairs; bracts oval, contracted below, apex obtuse or round, the upper half brown, the lower light, the base densely and the surfaces sparsely clothed with long, light gray, curly hairs; stamens 3, or sometimes 2 in the upper part of the ament, two or three times as long as the bract, the lower half bearing scanty, long, light gray, curly hairs; anthers oval, yellow; glands 2, posterior, ovate, truncate or divided, half as long as the bract; pistillate aments erect, stalked like the staminate, short-cylindric, 22 mm. or less in length, 12 mm. thick, somewhat loosely flowered; axis like the staminate; bracts like the staminate, one third to one half as long as the stipe; the capsule stipitate, short-conical, from an oval base, obtuse, smooth; stipe longer than the capsule, smooth: style very short, thick; stigmas short, oval, retuse or divided, erect; gland 1, posterior, ovate, truncate or divided, one sixth to one fourth as long as the stipe.

King's Cañon, Ormsby County, Nevada, at 1700–2000 m. (C. F. Baker, *Plants of Nevada*, no. 924, June 1, 1902.)